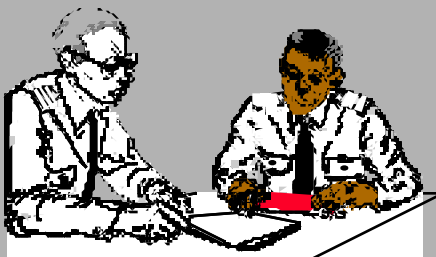
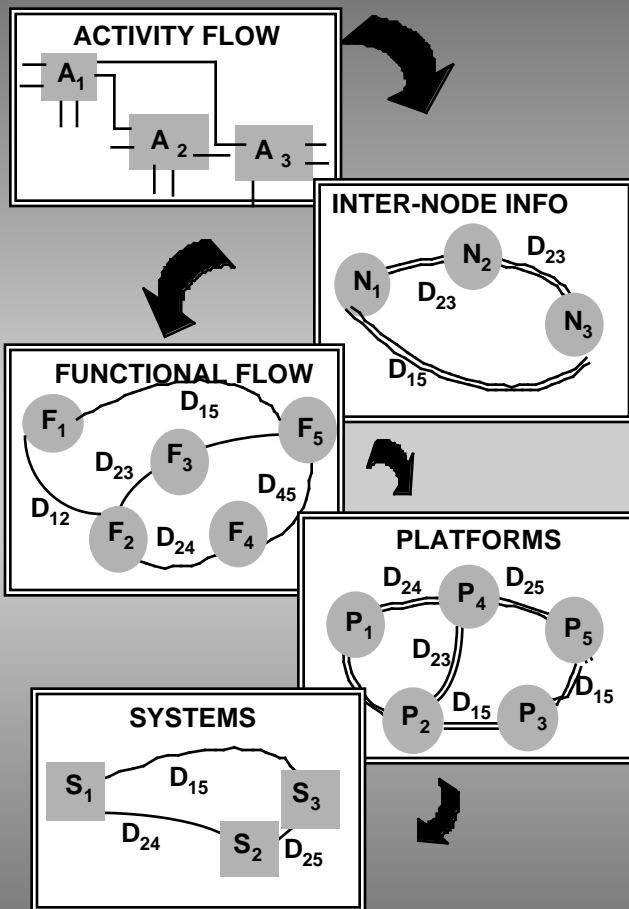


Navy Architecture Products

People



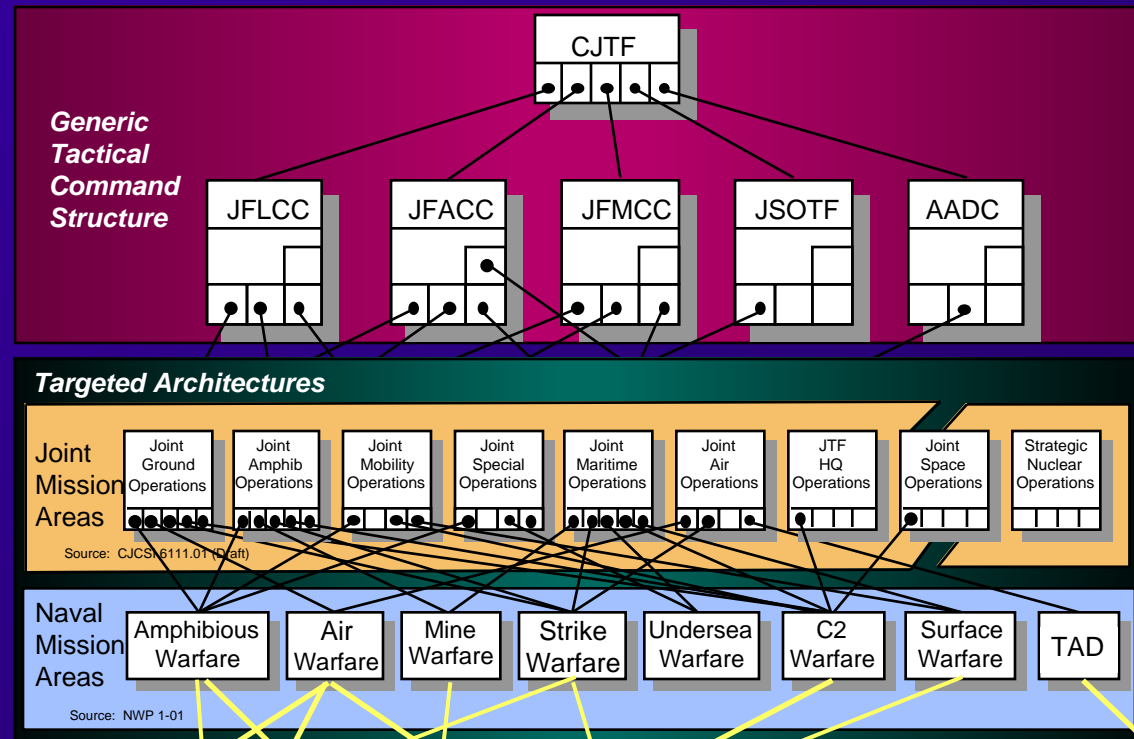
Analysis



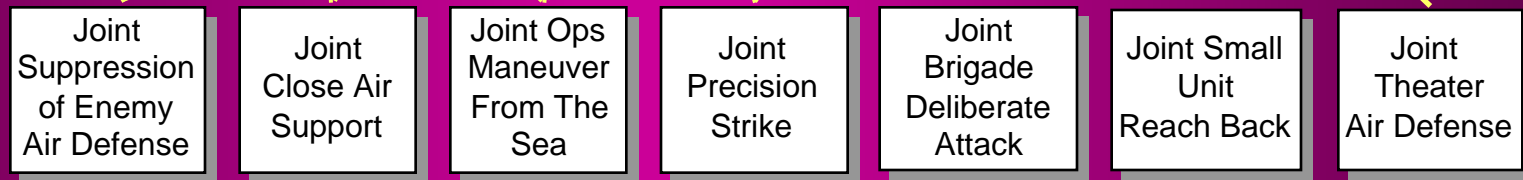
Products

- Operational activity descriptions ✓
- Operational data flow descriptions ✓
- Operational standards (e.g., data) ✓
- Node connectivity and information exchange requirements ✓
- Normalized operational architectures ✓
- Functional/nodal data flow ✓
- Systems functions and allocation ✓
- Activity descriptions by node ✓
- Systems element block diagrams ✓
- Systems interface definitions ✓
- Systems performance objectives ✓
- Systems standards list ✓
- DoN and TAFIM standards list ✓
- Standards profiles ✓
- Emerging tech'y/stds advisories ✓
- Standards requirements ✓
- Standards deficiencies lists ✓
- Data element descriptions ✓

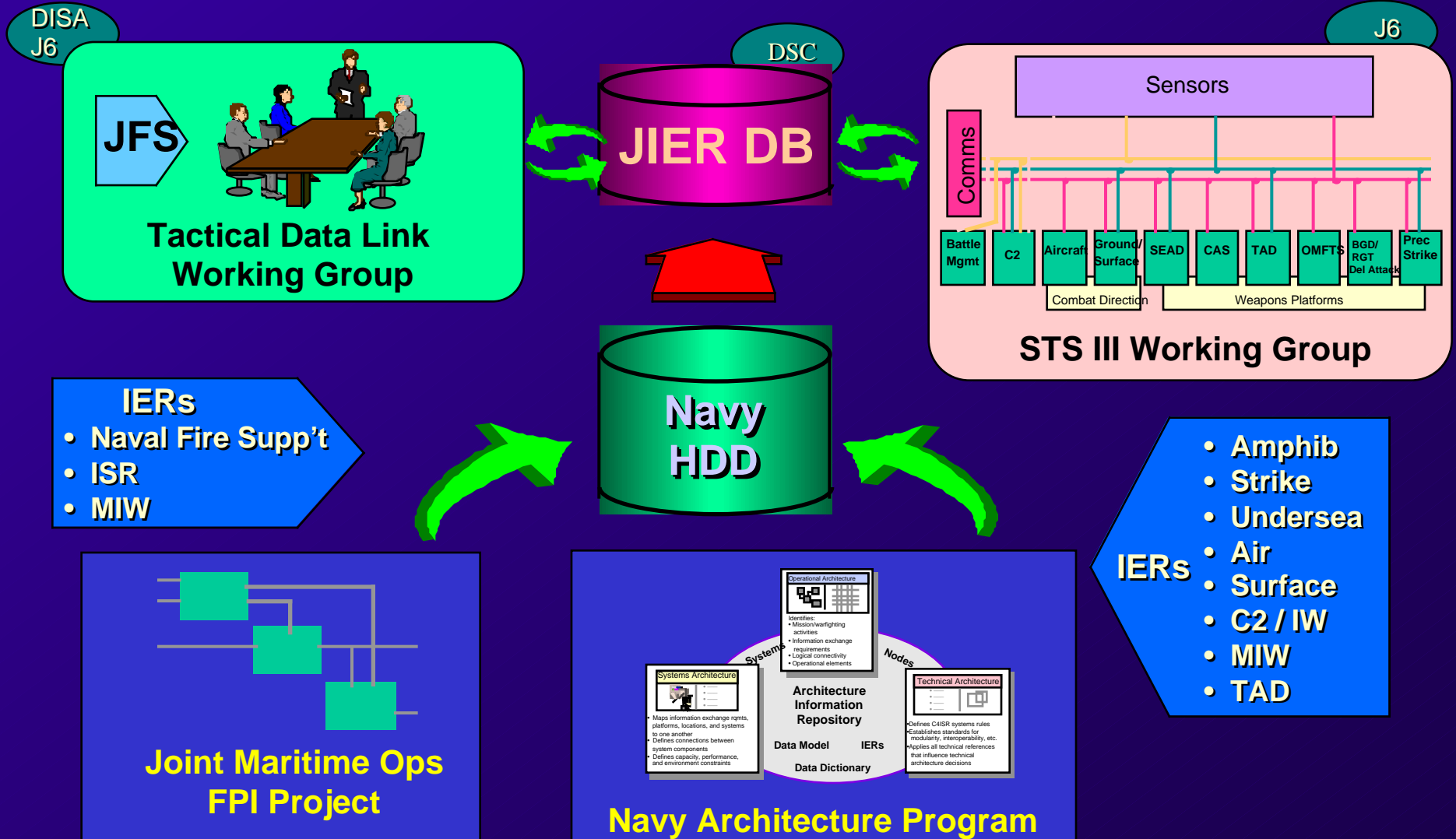
Navy/STS Architectural Relationships



JCS STS III Study Areas



Navy Architectures Contribute to JIER Database



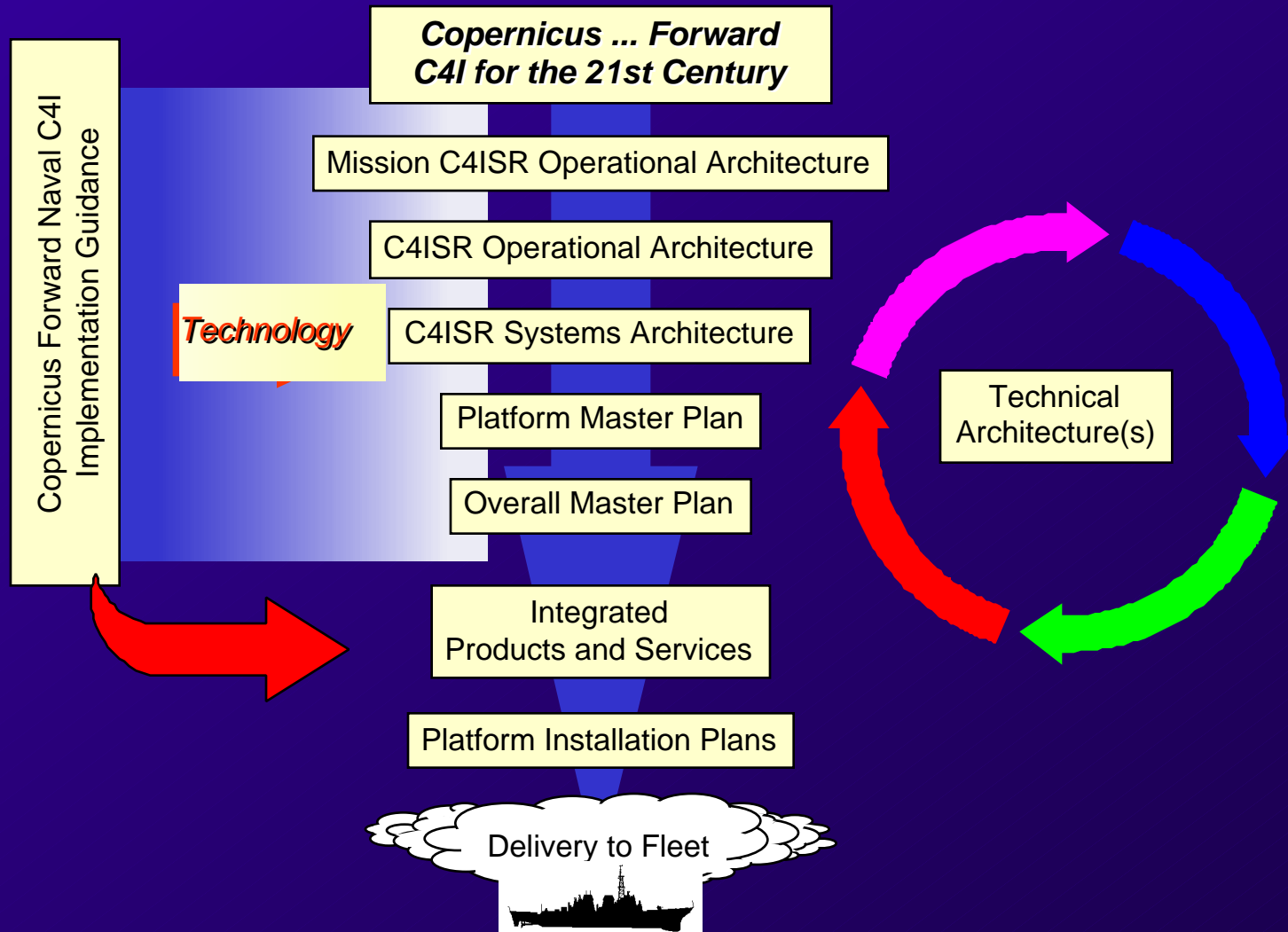
Background

- U.S. Navy initiated study recognizing joint interoperability problems between themselves as well as other services in a Joint littoral environment
- J6 (Cebrowski) tasker to J6I (Celeste) (31 Jan 96):
 - Integrate Navy architectures to STS III
 - Develop a Joint IER database to support analysis
- ASD(C3I) was briefed and supports STS III. Recommends:
 - Including service support
 - Assisting CISA architecture projects
 - Supporting J6/DISA JIEO Joint Tactical Data Link Management Plan project
- Navy is a funding partner (N6C/N62 @ \$300K each)

Common Architectural Goals

- Provide framework for acquisition of interoperable systems
- Define information exchanges across OPFACs, platforms, systems using standard data
- Improve information integrity
- Provide information to “Neck down” and consolidate systems
- Standardize terminology across warfighting and engineering communities
- Provide roadmap for systems evolution and technology insertion

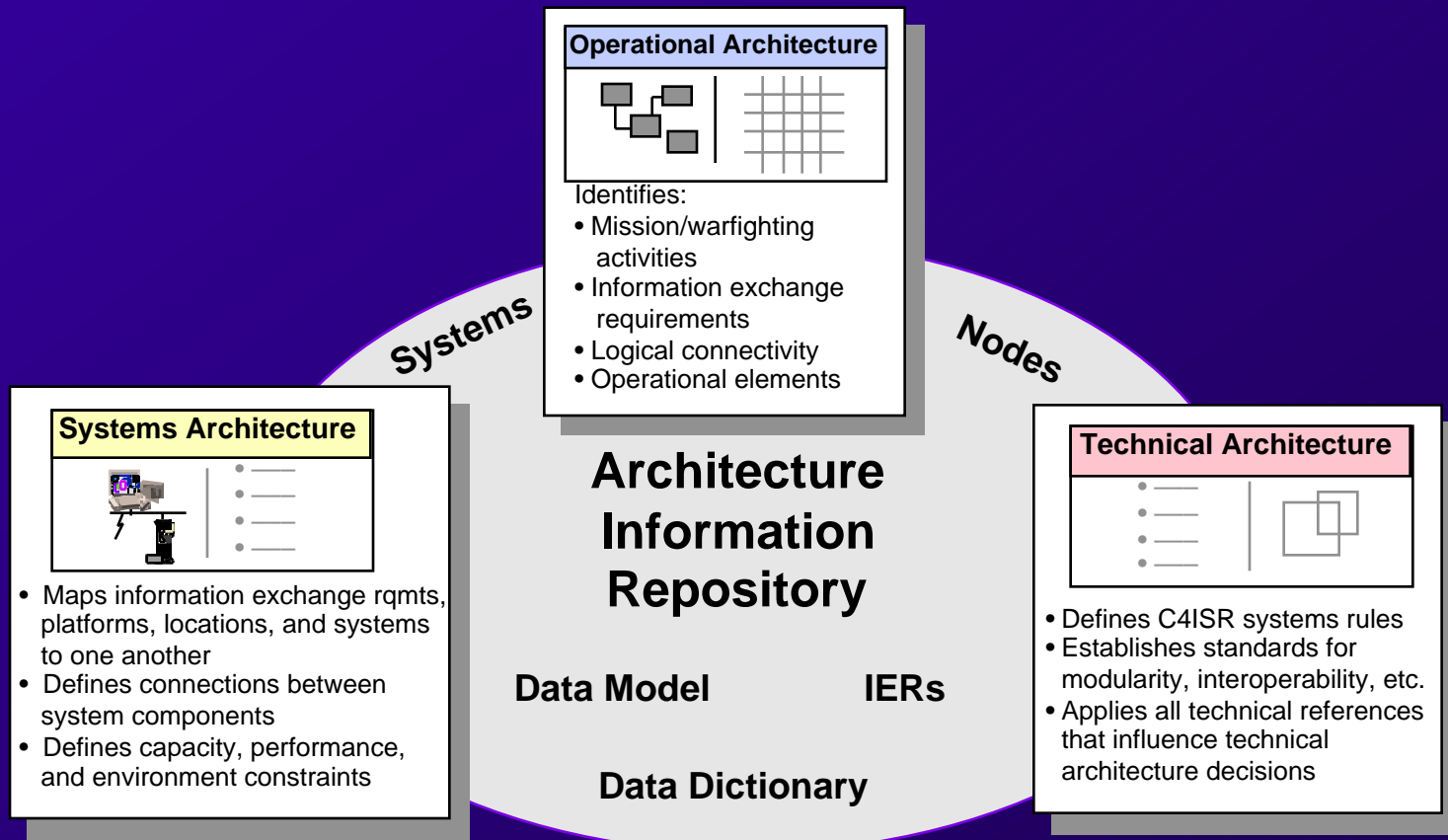
SPAWAR Systems Engineering Process



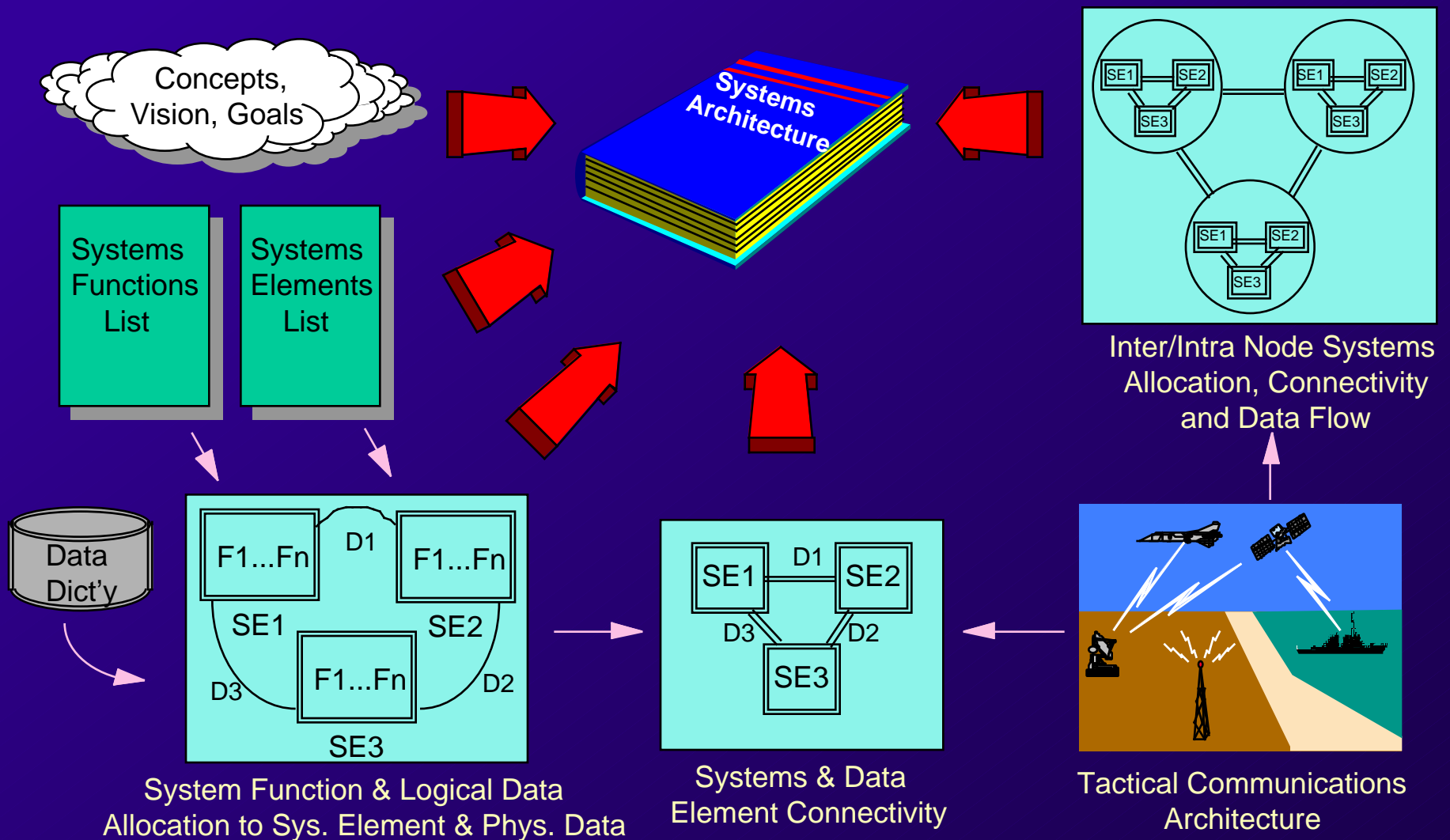
Navy Architecture Strategy

- Use Naval and Joint policy (align with C4ISR ITF)
- Align with customers (warfighter/acquisition officers)
 - Solicit key customer contacts
 - Understand customer needs
 - Involve customer in architecture development
- Integrate with key DoD processes:
 - JSPS, PPBS, acquisition
- Plan top down, execute bottom-up
 - Integrate into Naval multi-warfare architecture and Joint mission architectures
 - Develop multi-mission HDD, IERs, node list, etc.

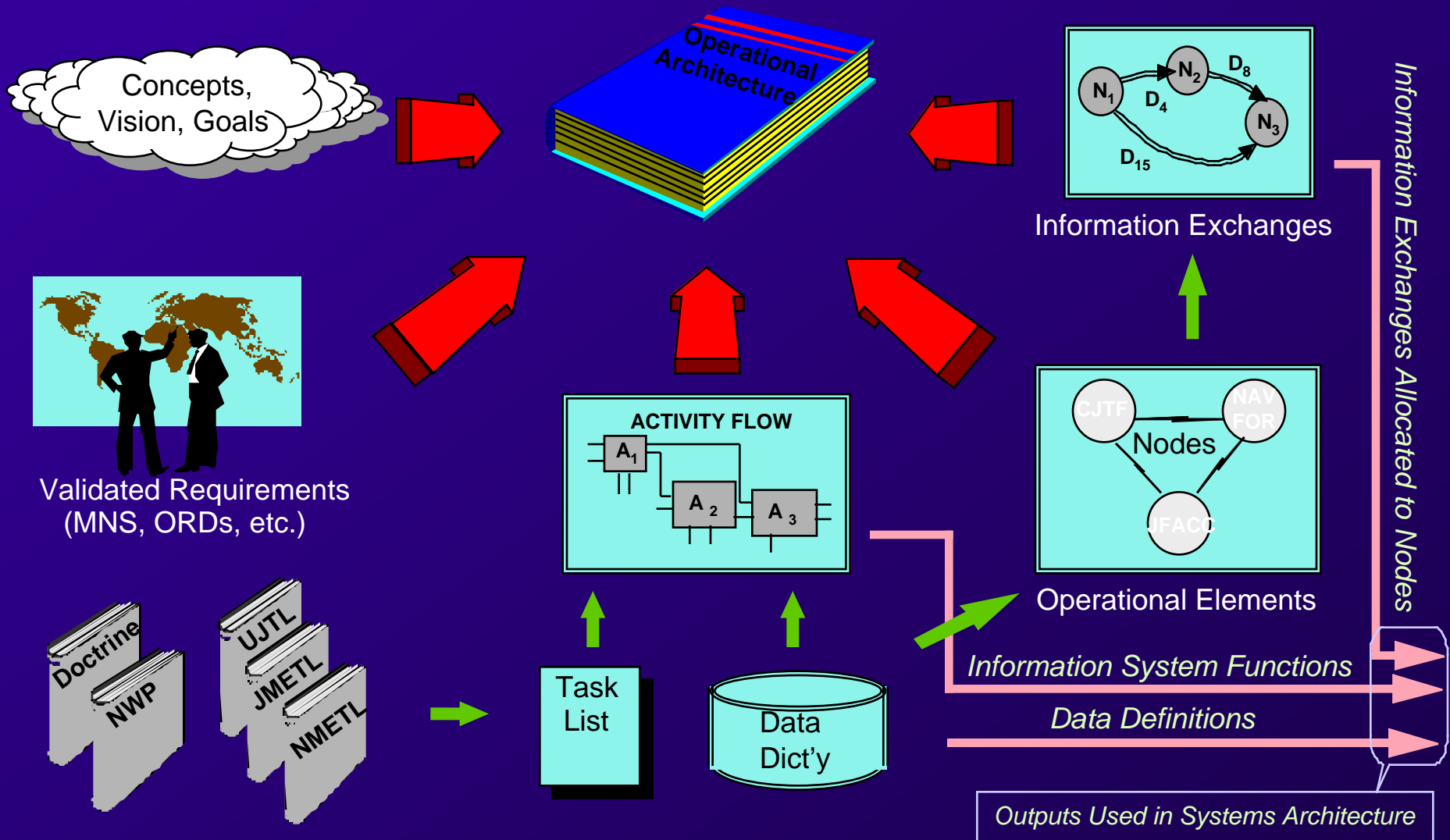
DoD Architecture Components



Systems Architectures



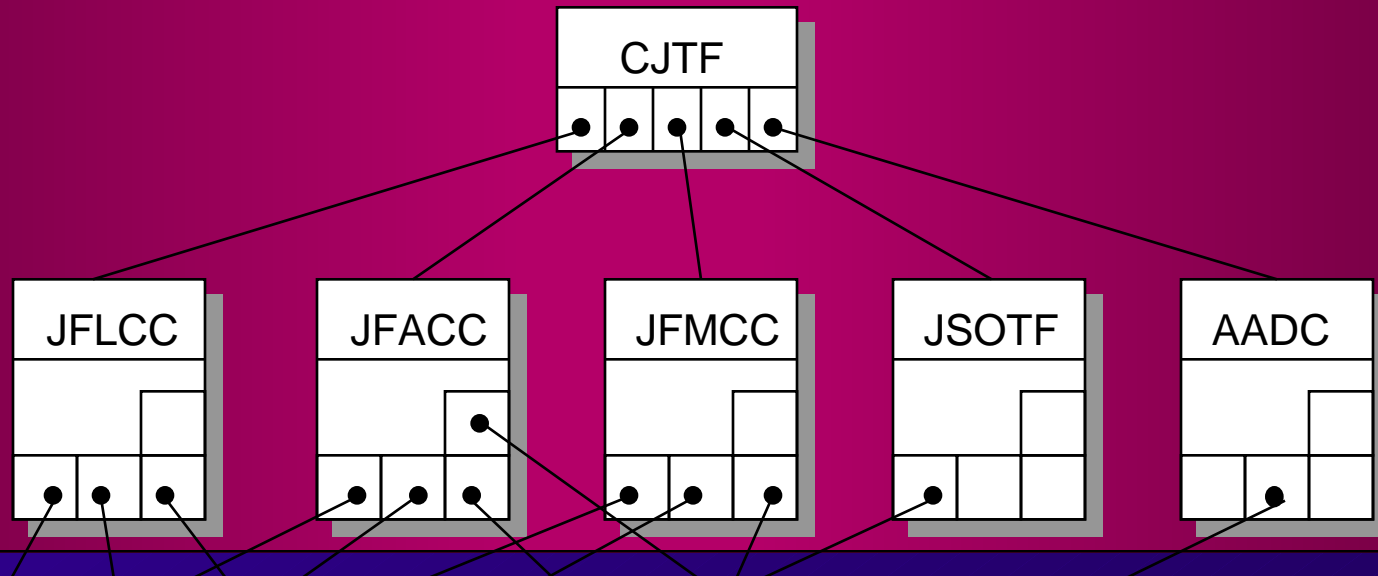
Operational Architectures



Architectural Relationships (Tactical)

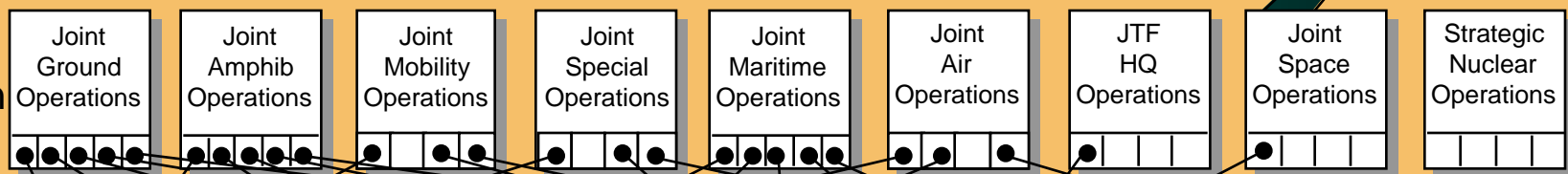
Representative Mappings

Generic Tactical Command Structure



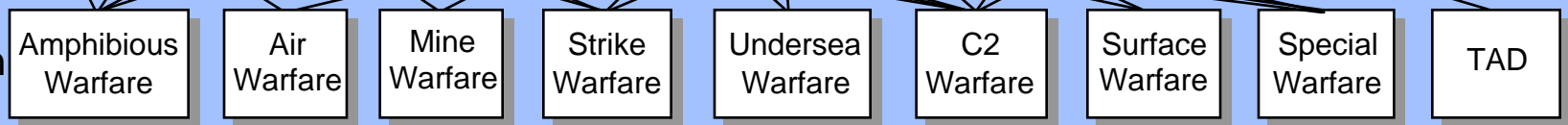
Targeted Architectures

Joint Mission Areas



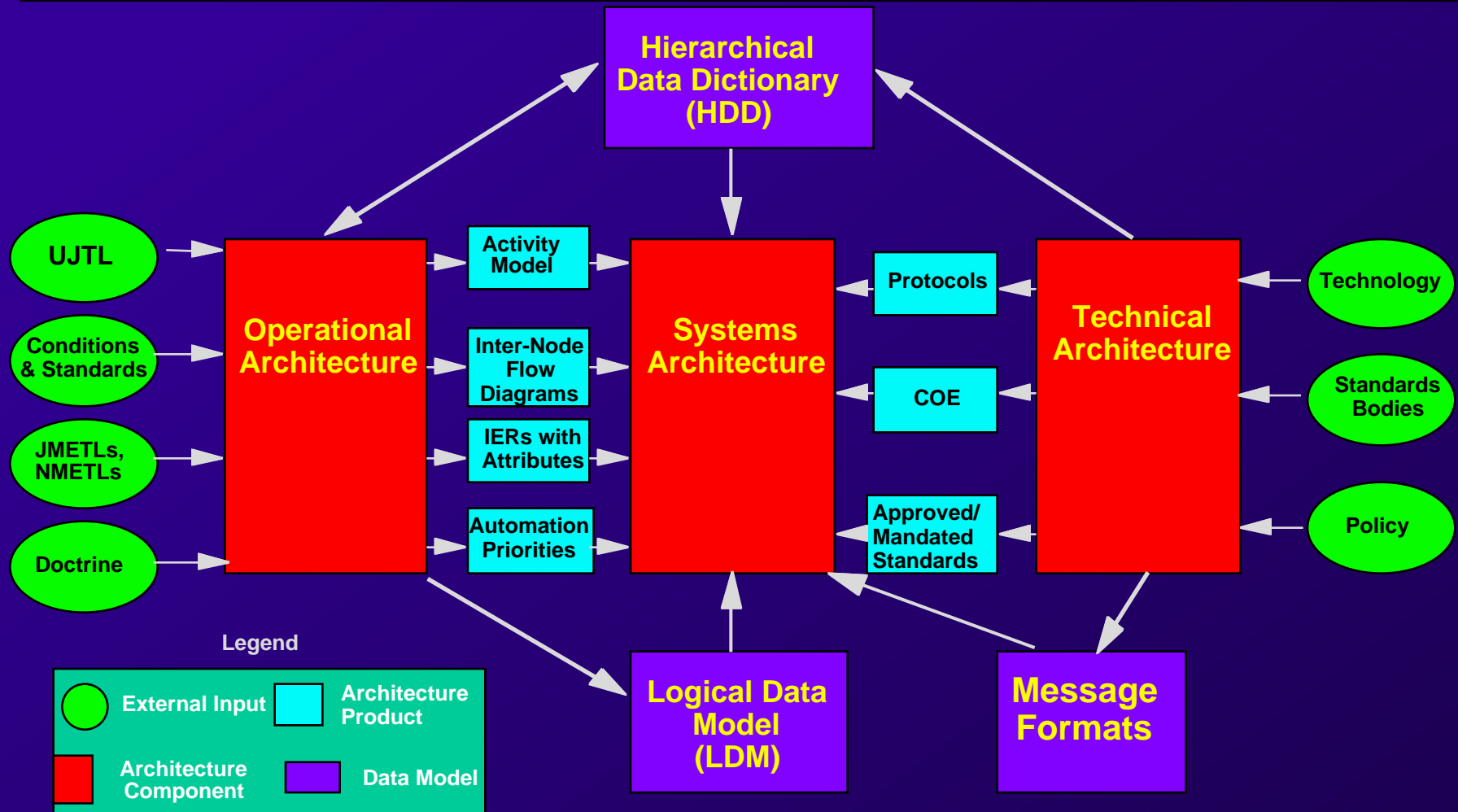
Source: CJCSI 6111.01 (Draft)

Naval Mission Areas



Source: NWP 1-01

Data Ties Architecture Together



1995 - 2000 Schedule

